

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200592

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL2-8030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8396 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

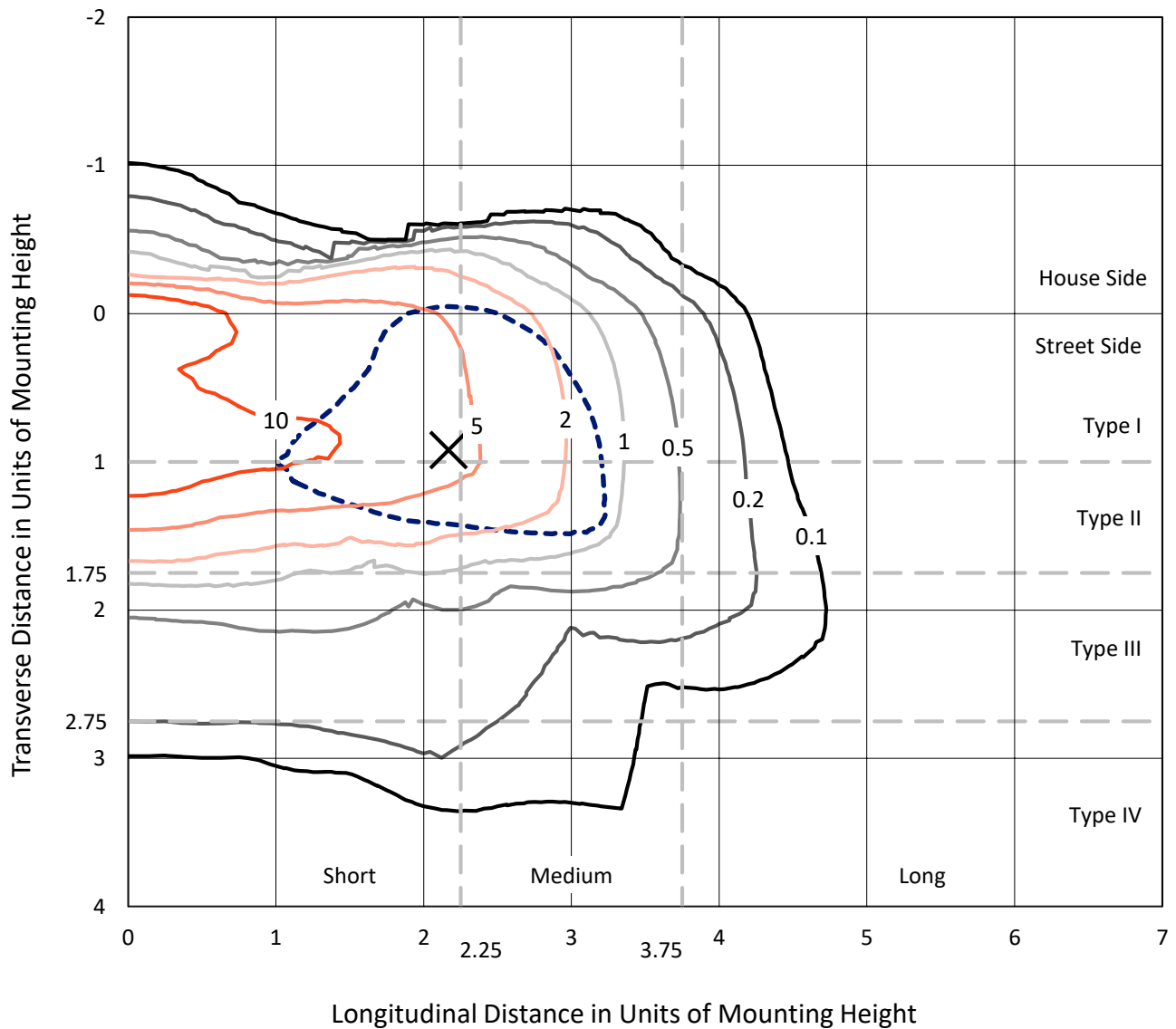


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Iso-Footcandle Lines of Horizontal Illumination

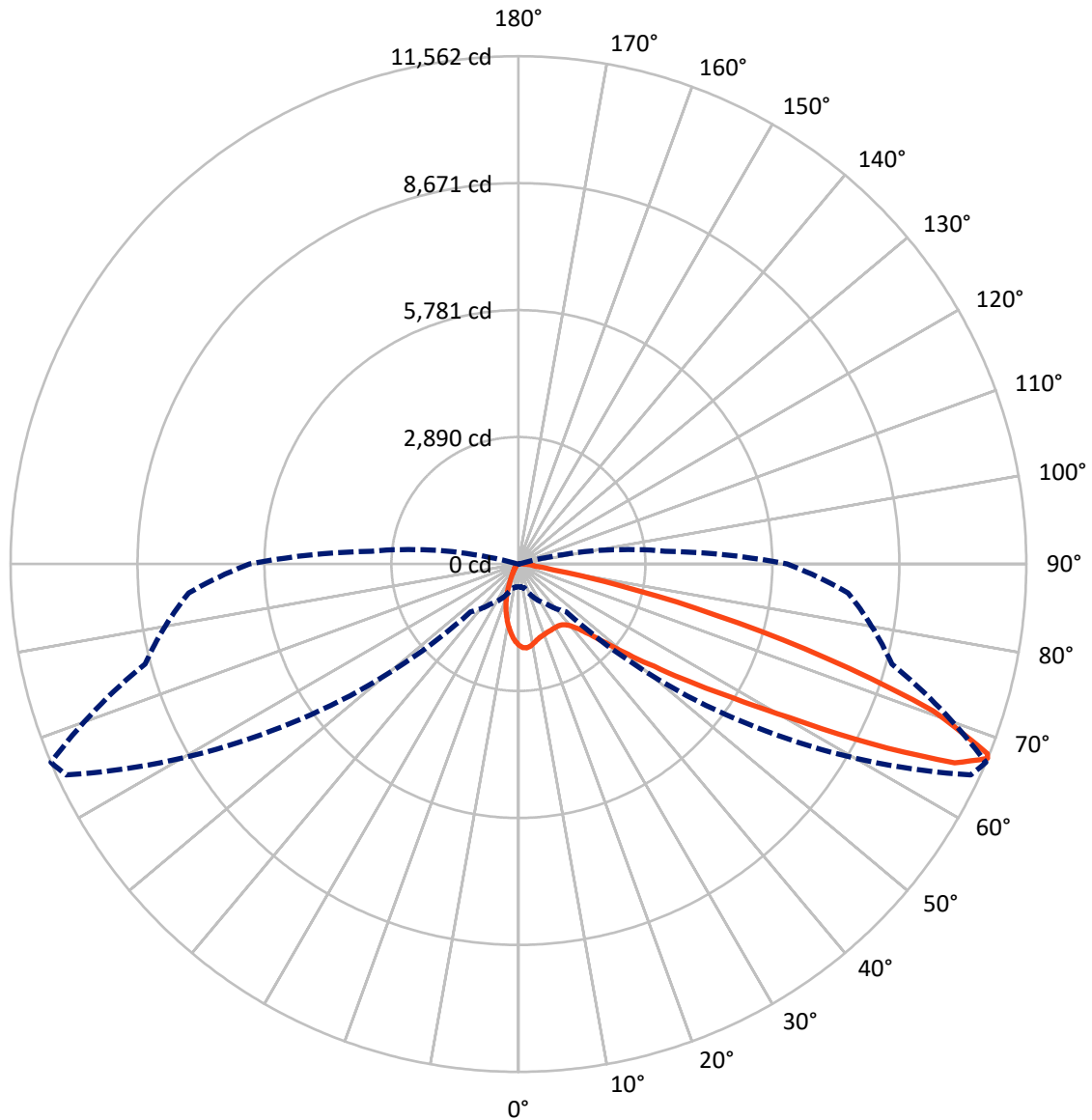
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	871.8	0.0	871.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7524.2	0.0	7524.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	8396.0	0.0	8396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.8
10°-20°	320.7	3.8
20°-30°	466.2	5.6
30°-40°	727.3	8.7
40°-50°	1288.4	15.3
50°-60°	2038.8	24.3
60°-70°	2335.2	27.8
70°-80°	968.6	11.5
80°-90°	100.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8396.0	100.0
0°-180°	8396.0	100.0



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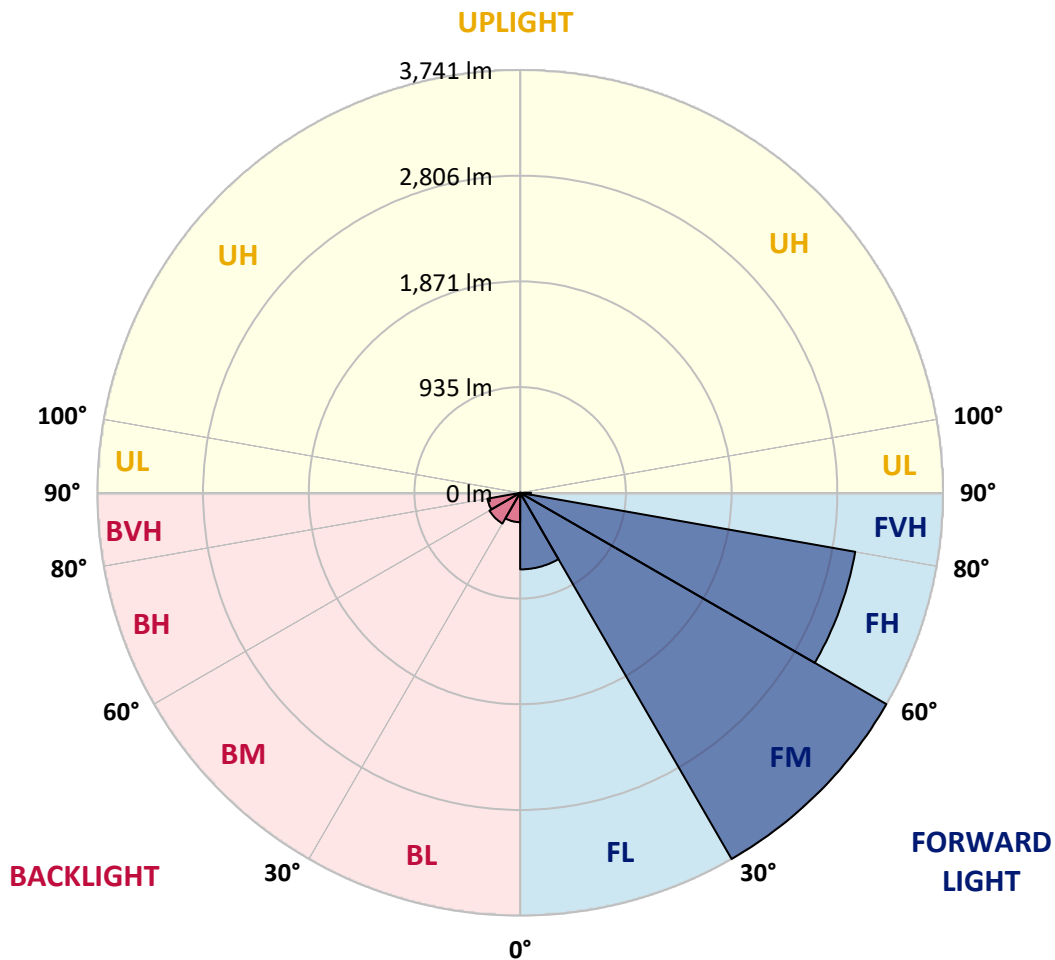
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.4	8.1			
FM (30°-60°)	3741.3	44.6			
FH (60°-80°)	3010.0	35.9			G2/5000
FVH (80°-90°)	95.6	1.1			G1/100
BL (0°-30°)	260.1	3.1	B1/500		
BM (30°-60°)	313.3	3.7	B1/1000		
BH (60°-80°)	293.8	3.5	B1/500		G1/500
BVH (80°-90°)	4.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6
2.5°	1914.3	1918.2	1917.7	1920.7	1927.5	1928.0	1921.2	1907.9	1905.0	1887.9	1858.0
5°	1765.4	1776.7	1783.6	1811.5	1842.8	1880.5	1908.9	1919.2	1917.7	1905.5	1860.4
7.5°	1595.5	1606.8	1614.6	1647.4	1689.0	1753.7	1827.6	1888.4	1893.7	1907.0	1858.5
10°	1482.4	1484.3	1495.1	1526.5	1570.0	1636.2	1724.3	1830.6	1846.7	1895.2	1853.6
12.5°	1389.3	1390.8	1405.0	1438.8	1485.3	1551.9	1644.5	1767.4	1792.4	1880.5	1852.6
15°	1323.2	1328.6	1341.3	1376.6	1426.1	1492.2	1587.2	1720.9	1750.7	1875.1	1861.4
17.5°	1301.2	1307.1	1311.0	1336.4	1381.5	1446.1	1543.6	1690.5	1724.3	1878.1	1878.6
20°	1324.2	1328.6	1319.8	1326.2	1354.1	1411.9	1506.9	1664.6	1704.7	1881.5	1900.6
22.5°	1409.9	1411.9	1387.9	1360.0	1355.1	1386.9	1478.0	1644.0	1687.1	1890.8	1926.6
25°	1556.8	1553.4	1514.2	1454.0	1397.2	1382.5	1460.8	1631.3	1678.3	1900.6	1953.5
27.5°	1734.1	1739.0	1685.1	1597.5	1489.2	1411.9	1458.4	1625.9	1674.3	1907.5	1977.0
30°	1949.6	1956.4	1894.7	1784.5	1629.3	1484.3	1480.9	1624.9	1671.9	1903.0	1979.0
32.5°	2169.5	2177.8	2129.3	2015.7	1816.4	1605.8	1531.8	1635.7	1676.8	1887.9	1967.7
35°	2399.6	2411.4	2379.1	2281.6	2070.0	1781.1	1621.5	1668.5	1699.8	1886.4	1956.4
37.5°	2717.5	2728.2	2667.5	2564.2	2377.1	2016.2	1765.4	1730.2	1754.2	1909.9	1959.4
40°	3192.0	3190.5	3033.8	2875.6	2714.5	2314.9	1967.7	1841.8	1854.1	1980.9	1995.6
42.5°	3709.1	3706.7	3475.0	3234.6	3089.1	2682.7	2233.6	2034.8	2026.5	2111.7	2089.6
45°	4107.8	4107.3	3918.2	3647.4	3540.2	3104.8	2577.4	2303.1	2290.4	2324.2	2263.0
47.5°	4277.7	4280.6	4185.6	3995.1	4040.2	3675.8	3010.8	2692.0	2672.9	2659.2	2566.1
50°	4145.5	4151.3	4159.2	4122.0	4407.0	4443.2	3592.1	3240.0	3230.7	3169.5	3024.0
52.5°	3713.5	3743.4	3835.5	3953.5	4534.3	5179.8	4503.5	3920.7	3870.7	3805.6	3645.5
55°	2985.8	3018.6	3193.5	3479.9	4344.8	5663.6	5780.6	4798.3	4715.0	4520.6	4289.4
57.5°	1976.0	2026.9	2280.6	2645.0	3794.3	5741.5	7054.9	6016.2	5726.3	5194.0	4933.4
60°	1088.6	1137.6	1412.8	1742.9	2740.5	5356.5	7911.9	7601.9	7089.7	5946.7	5715.5
62.5°	670.4	696.9	900.1	1207.2	1643.5	4227.7	8089.2	9594.6	9001.5	6915.8	6660.2
65°	533.8	545.1	644.5	986.8	1178.3	2514.7	7516.7	11113.7	10915.8	8089.2	7505.9
67°	518.1	522.5	569.5	847.2	1110.7	1541.6	6297.3	11361.0	11561.8	8799.3	7532.4
67.5°	521.6	526.4	571.0	808.5	1108.7	1416.8	5877.1	11263.5	11517.2	8855.6	7415.3
70°	502.9	518.1	653.8	808.0	1054.4	1177.3	3519.6	9759.1	10023.1	8228.3	6291.9
72.5°	178.3	179.2	282.6	653.8	1146.4	1190.0	1767.4	7154.3	7349.7	6294.4	4536.3
75°	105.8	90.1	94.0	186.1	1095.5	1155.7	1019.6	4571.5	4644.5	3606.8	2297.3
77.5°	73.0	63.7	65.6	82.3	417.2	1139.6	810.0	2384.0	2306.1	1264.9	489.2
80°	41.6	36.7	39.2	72.0	151.8	1063.2	764.0	966.7	824.2	214.5	135.2
82.5°	22.0	18.6	22.5	59.3	105.8	662.6	765.4	467.2	370.2	72.5	92.1
85°	7.8	6.4	10.8	40.6	70.5	203.2	709.6	392.8	308.5	35.3	70.0
87.5°	1.5	1.5	4.4	16.7	28.4	62.2	419.7	233.1	156.2	21.1	48.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6
2.5°	1845.8	1824.7	1796.3	1761.5	1720.4	1684.1	1657.2	1629.3	1623.4	1613.6	1612.2
5°	1833.5	1797.3	1726.7	1645.9	1559.8	1481.9	1418.7	1362.4	1337.4	1315.9	1313.4
7.5°	1815.4	1761.0	1641.0	1510.8	1376.1	1253.7	1149.9	1076.4	1008.8	976.5	971.6
10°	1794.3	1716.5	1544.6	1363.9	1177.8	1004.9	850.6	721.4	643.0	596.5	590.6
12.5°	1774.7	1672.9	1446.1	1211.6	964.3	733.1	534.8	411.4	329.1	295.8	291.9
15°	1765.4	1637.6	1354.1	1055.8	740.9	466.7	292.4	226.3	199.3	191.5	191.0
17.5°	1764.5	1607.7	1264.0	894.7	519.1	271.3	190.5	173.9	168.5	166.5	166.5
20°	1764.0	1579.3	1173.9	727.7	329.6	180.7	158.7	154.8	150.8	148.4	148.4
22.5°	1769.4	1553.9	1079.8	557.3	207.6	146.4	139.6	135.7	130.8	127.3	126.8
25°	1774.7	1534.3	983.8	396.7	150.3	127.3	120.5	115.1	108.2	103.8	103.3
27.5°	1775.7	1509.8	881.0	265.4	125.9	111.2	102.4	94.0	86.2	81.8	81.3
30°	1761.0	1468.7	766.9	179.2	111.2	96.5	84.7	75.9	68.6	65.1	65.1
32.5°	1732.1	1417.7	641.5	135.2	98.9	82.8	70.0	61.7	56.8	55.3	54.8
35°	1706.2	1362.9	512.7	114.6	88.6	70.0	57.3	51.9	49.0	48.5	48.0
37.5°	1691.0	1318.8	391.8	103.8	78.8	58.8	48.5	44.6	43.1	42.1	42.6
40°	1702.8	1282.1	289.4	95.0	69.1	49.0	41.1	39.2	37.7	37.2	37.2
42.5°	1754.2	1275.7	215.0	87.2	59.7	40.6	35.7	34.3	33.3	32.8	33.3
45°	1889.3	1314.9	167.0	79.8	50.4	34.3	30.4	29.9	29.4	29.4	29.4
47.5°	2092.6	1395.7	139.1	71.5	42.1	29.4	26.4	26.0	25.5	26.0	26.0
50°	2436.8	1543.6	124.4	63.2	34.8	25.0	22.5	22.5	22.5	22.5	23.0
52.5°	2960.4	1834.5	114.6	54.8	28.4	21.1	19.1	19.1	19.6	19.6	20.1
55°	3543.6	2220.4	105.8	46.5	24.0	17.6	15.7	16.2	16.7	17.1	17.1
57.5°	4176.3	2647.9	98.4	38.2	20.6	14.2	13.2	13.7	14.2	15.2	15.2
60°	4939.8	3110.7	87.7	29.9	17.1	11.3	10.3	11.3	12.7	13.7	14.2
62.5°	5778.2	3558.3	73.9	23.5	14.2	8.8	8.3	10.3	12.2	13.2	13.7
65°	6351.2	3698.8	56.8	19.1	10.8	6.4	6.9	9.3	11.8	13.2	13.2
67°	6119.0	3353.6	46.5	16.2	8.8	4.9	6.4	9.3	11.8	12.7	13.2
67.5°	5957.9	3218.4	44.6	15.7	8.3	4.9	6.4	9.3	11.8	13.2	13.2
70°	4847.7	2417.7	37.2	11.8	6.9	4.4	5.4	8.8	11.3	12.7	12.7
72.5°	3368.3	1490.7	33.3	8.3	5.9	3.9	4.9	8.3	10.8	12.2	12.7
75°	1601.4	539.7	28.4	6.4	5.4	3.4	4.4	8.3	10.8	12.2	12.2
77.5°	326.6	125.4	23.0	5.4	4.4	3.4	3.9	7.8	10.3	11.8	11.8
80°	107.2	48.5	17.1	4.9	4.4	3.4	3.9	7.3	10.3	11.3	11.8
82.5°	77.4	24.5	11.3	4.9	4.4	3.4	3.4	7.3	9.8	11.3	11.3
85°	59.3	17.1	7.3	4.9	4.4	3.4	3.4	6.9	9.3	10.8	10.8
87.5°	39.2	6.9	5.9	4.9	4.4	3.4	3.4	6.9	8.8	10.3	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)